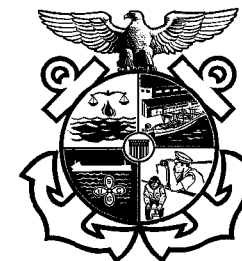


United States Coast Guard



**HULL
INSPECTION BOOK**

| | | |
|---|---|-----------------------|
| Name of Vessel | | |
| Official Number | Class | |
| Date Completed | Location | |
| Vessel Built in Compliance with SOLAS: 60 74 74/78 N/A | | |
| Route | | |
| Oceans | Limited Coastwise | Lakes / Bays / Sounds |
| Coastwise | Great Lakes | Rivers |
| Inspection Type | | |
| Inspection for Certification (COI) | Reinspection <input type="radio"/> Mid-Period <input type="radio"/> Other <input type="radio"/> First <input type="radio"/> Second <input type="radio"/> Third | |
| | } Passenger vessels only | |
| Inspectors | | |
| 1. _____ | 3. _____ | |
| 2. _____ | 4. _____ | |

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

This inspection book is intended to be used as a job aid by Coast Guard marine inspectors during hull inspections of U.S. flagged vessels. The lists contained within this book are not intended to limit the inspection. Each marine inspector should determine the depth of inspection necessary. A checked box should be a running record of what has been inspected. It does not imply that the entire system has been inspected or that all or any items are in full compliance. This job aid does not constitute part of the official inspection record.

NOTE: Guidance on how to conduct hull inspections of U.S. flagged vessels can be found in the Marine Safety Manual (MSM) Volume II, Chapter B1: Inspection of Vessels for Certification. All MSM cites listed in this book refer to MSM Volume II unless otherwise indicated.

- Review MSIS records.
 - MIPIP
 - MICOI
- Obtain copies of forms to be issued.

- Issue letters/certificates to vessel.
- Complete MSIS entries.
 - MIAR
 - MSDS
 - MIDR
 - VFLD
 - VFID
- Initiate Report of Violation (ROV) if necessary

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Section 1: Administrative Items

| | |
|--|----|
| IMO Applicability Dates | 1 |
| Involved Parties & General Information | 2 |
| Vessel Information | 3 |
| Vessel Description | 3 |
| Section 2: Certificates and Documents | |
| Certificates..... | 4 |
| Logs and Manuals..... | 7 |
| Pollution Prevention Records | 7 |
| Section 3: Inspection Items | |
| Navigation Equipment..... | 9 |
| General Health and Safety | 11 |
| Structural Integrity..... | 12 |
| Integral Cargo Tanks..... | 14 |
| Ground Tackle | 16 |
| Lifesaving Equipment..... | 16 |
| Fire Protection | 22 |
| Pollution Prevention | 24 |
| Section 4: Drills | |
| Fire Drill | 26 |
| Abandon Ship Drill | 27 |
| Section 5: Appendices | |
| Recommended US Vessel Deficiency Procedures..... | 28 |
| Deficiency Summary Worksheet..... | 29 |
| Notes | 31 |
| Conversions..... | 34 |

Deficiency Summary Worksheet:

Name of Vessel

VIN

Deficiency

MSIS
Code**Req't. Issued /
Date Completed**

Involved Parties & General Information:

Vessel's Representatives

Phone Numbers

Owner—Listed on DOC (if applicable), or COFR

No Change

Operator

No Change

☐ **Abandon Ship Drill:**

| | | |
|-----------------------------|----------------------------|-------------------------------|
| General alarms / signals | Familiarity with duties | Boat release |
| Muster lists | Provide equipment | Boat operation |
| Muster of crew / passengers | Familiarity with equipment | Egress procedures |
| Crew response | Lower lifeboat | Davit-launched liferaft drill |
| Language understood by crew | Brake operation | Communication w/ bridge |
| Lif jackets | Engine start | Lighting |

(SOLAS 74/78 III/18.3; MSM Vol. II/C5.C.7.h)

Location: _____ Time to Water: _____

Notes: _____

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Section 2: Certificates and Documents

| Name of Certificate | Issuing Agency | ID # | Port Issued | Issue Date | Exp. Date | Endors. Date |
|--|----------------|------|-------------|------------|-----------|--------------|
| Certificate of Documentation No Change | USCG | | | | | |
| Classification Document No Change | | | | | | |
| Certificate of Financial Responsibility (COFR) No Change | USCG | | | | | |
| Safety Construction (SLC) No Change | | | | | | |
| Safety Equipment (SLE) No Change | USCG | | | | | |
| Safety Radio (SLT) No Change | | | | | | |

| | | |
|--------------------------|--|---------------------------------|
| <input type="checkbox"/> | Cargo oil containment | 33 CFR 155.310 |
| | <ul style="list-style-type: none"> • Size • Drains • Scupper closures | |
| <input type="checkbox"/> | Fuel oil containment | 33 CFR 155.320 |
| | <ul style="list-style-type: none"> • Portable • Fixed | |
| <input type="checkbox"/> | Prohibited oil spaces | 33 CFR 155.470 |
| <input type="checkbox"/> | Emergency shutdown | 33 CFR 155.780 |
| <input type="checkbox"/> | Deck lighting | 33 CFR 155.790 |
| <input type="checkbox"/> | Oil transfer hose | 33 CFR 155.800 |
| | <ul style="list-style-type: none"> • Condition • Markings • Hose assembly requirements • Tests and inspections | |
| <input type="checkbox"/> | Fuel tank vents | |
| | <ul style="list-style-type: none"> • Flame screens • Closures • Pollution containment | 33 CFR 155.320 |
| <input type="checkbox"/> | Garbage | 33 CFR 151.63 MARPOL Ax. V/3 |
| | <ul style="list-style-type: none"> • Shipboard garbage properly disposed | |

Notes: _____

Certificates:

| | | |
|--------------------------|---|---|
| <input type="checkbox"/> | ISM Code | SOLAS 74/78 IX/3 |
| | <ul style="list-style-type: none"> • Safety Management System • Shipboard Operations Plan | |
| <input type="checkbox"/> | Stability letter posted in pilothouse | 46 CFR 78.12-1 46 CFR 97.11-1 ICLL Reg. 10(2) |
| <input type="checkbox"/> | Annual drug and alcohol program audit | 46 CFR Part 16 |
| <input type="checkbox"/> | Officers' licenses current | |
| <input type="checkbox"/> | GMDSS endorsement | 47 CFR Part 80 |
| | FCC Station License | |
| | Safety Radio Certificate | |
| <input type="checkbox"/> | GMDSS maintenance personnel | 47 CFR 80.1074 |
| | 1st Class Radiotelegraph Operator's Certificate | |
| | 2nd Class Radiotelegraph Operator's Certificate | |
| | 3rd Class Radiotelegraph Operator's Certificate | |
| <input type="checkbox"/> | Required international safety convention certificates posted and valid | |
| <input type="checkbox"/> | Liferaft servicing certificates | 46 CFR 160.151-57(p) SOLAS 74/78 III/19.8 |
| | <ul style="list-style-type: none"> • Annual service | |
| <input type="checkbox"/> | Cargo Gear Certificate | 46 CFR 91.37-75 |

Notes: _____

- ☐ **Fixed fire extinguishing systems**
- Controls, instructions, marking 46 CFR 71.25-20(a)(2)
 - Alarms tested 46 CFR 71.25-20(a)(3)
 - Piping 46 CFR 76.15
 - Heads, distribution 46 CFR 76.17
 - Bottles weighed annually 46 CFR 76.23
 - Bottles hydrostatically tested (every 12 years) 46 CFR 76.25
 - Flexible loops tested or replaced (10% per year) 46 CFR 91.25-20(a)(2)
 - Foam tanks (refilled or tested) 46 CFR 91.25-20(a)(3)
 - Sea suction, strainers 46 CFR 95.15
 - Fixed system tested 46 CFR 95.17
 - Storage space / door SOLAS 74/78 II-2/21
 - Sprinkler head tank MSM Ch. C2.I.9
 - NVIC 6-72, Change 1
 - NVIC 8-73

| Type of system: (circle appropriate type) | | | | |
|---|----------------------|-------|------|-----------|
| Low Pressure CO2 | High Pressure CO2 | Halon | Foam | Sprinkler |

- ☐ **Fire main system**
- Pumps 46 CFR 76.10
 - Piping 46 CFR 95.10
 - Cut-off valves NVIC 6-72, Change 1
 - Drains SOLAS 74/78 II-2/4

- ☐ **Fire stations**
- Hydrants (2 effective streams) 46 CFR 76.10-10
 - Nozzles and spanners 46 CFR 95.10-10
 - Fog applicators (<6 feet in length, in engine room) NVIC 6-72, Change 1
 - Hose SOLAS 74/78 II-2/4
 - UL approved SOLAS 74/78 II-2/21
 - Correct length
 - Markings
 - Equipment compatible

- ☐ **Total length of all hose tested _____**
- Hydrostatically tested to at least 100 psi 46 CFR 76.10-10
 - Proper threads 46 CFR 95.10-10
 - Approved hose MSM Ch. C2.I.6
 - 46 CFR 91.25-20(a)(4)
 - 46 CFR 71.25-20(a)(4)

Notes: _____

- ☐ **Shipboard oil pollution emergency plan**
- Approved by Coast Guard / class society MARPOL Ax. I/26.1
 - Contact numbers correct 33 CFR 151.26
 - Immediate Actions List

- ☐ **Vessel response plan**
- (vessels carrying oil as secondary cargo)
- 33 CFR 155.1030
- 33 CFR 155.1045

- Approved by Coast Guard 33 CFR 155.1065
- Annual review by owner / operator 33 CFR 155.1070

- ☐ **Oil transfer procedures**
- 33 CFR 155.720

- Posted
- List of products carried by vessel
- Description of transfer system including a line diagram of piping
- Number of persons required on duty
- Duties by title of each person
- Means of communication
- Procedures to top off tanks
- Procedures to report oil discharges

Notes: _____

- ☐ Lifefloats and buoyant apparatus 46 CFR 199.640
- Equipment
 - Stowage
 - Markings
- ☐ Line-throwing apparatus 46 CFR 199.170
SOLAS 74/78 III/17.49
- Equipment
 - Required drills held
 - Magazine
 - Type _____
- ☐ Lifebuoys 46 CFR 199.70(a)
SOLAS 74/78 III/7
SOLAS 74/78 III/21
SOLAS 74/78 III/27
- Lights
 - Lines
 - Smoke signals
 - Stowage
 - Markings
- ☐ Lifejackets 46 CFR 199.70(b)
SOLAS 74/78 III/7.2.2
MSM Ch. C2.H.4
- Adult _____ Children _____
- Retro-reflective tape
 - Lights
 - Whistles
 - Work vests
 - Stamped passed
 - Number of lifejackets rejected by inspector _____
- ☐ Lifejacket stowage 46 CFR 199.70(b)
SOLAS 74/78 III/7.2
46 CFR 199.80(c)
46 CFR 199.70(b)(2)
46 CFR 199.80(c)
46 CFR 199.217
- Required notices and markings
 - Stowage lockers
 - Wearing instructions
 - Location instructions (passenger vessels)
- ☐ Stateroom notices posted 46 CFR 199.80(c)
- ☐ Immersion suits 46 CFR 199.273
SOLAS 74/78 III/21.4
SOLAS 74/78 III/27.3
SOLAS 74/78 III/30.2.7
MSM Ch. C2.H.5
- Condition
 - Retro-reflective material

Notes: _____

- ☐ Radio equipment 33 CFR 26.03
SOLAS 74/78 V/7
SOLAS 74/78 V/12
33 CFR 164.41
NVIC 9-93
- Radios, RDF, Loran
 - Electronic position fixing device tested
 - GMDSS meets requirements for vessel operating area
- ☐ Internal communications and control system 46 CFR 113.30
- EOT failure alarms 46 CFR 113.35
 - Telephones
 - Voice tubes
 - Emergency loudspeaker system
 - Public address system 46 CFR 113.50
 - Bell pulls
 - Pilothouse controls
- ☐ Navigation lights and signals 72 COLREGS
- Control panels
 - Running lights
 - Anchor lights
 - Special day and night signals
 - Distress signals and stowage 46 CFR 199.60
 - Flag signals, international code
 - Whistle, light, bells, gongs
 - Day and night signal devices
 - Certificate of Alternate Compliance 33 CFR 81.9
- ☐ Steering gear 33 CFR 164.35
MSM Ch. C4.F
- Main gear tested (all stations)
 - Auxiliary gear tested (all stations)
 - Instructions and markings
 - Rudder angle indicator
 - Illumination
 - Alarms 46 CFR 113.43
 - Block diagram
- ☐ Maneuvering facts sheet with warning statements 33 CFR 164.35

Notes: _____

- | | | |
|--------------------------|---|--|
| <input type="checkbox"/> | Disengaging apparatus examined or tested and marked as required* | 46 CFR 199.45(b) SOLAS 74/78 III/41 MSM Ch. C2.H.2.b |
| | <ul style="list-style-type: none"> • Universal joints • Safety latches • Hooks • Locking knuckles • Frame | |
| <input type="checkbox"/> | Motor lifeboats* | 46 CFR 199.45(b) SOLAS 74/78 III/41 MSM Ch. C2.H.9 |
| | <ul style="list-style-type: none"> • Engine operating test • Cooling water pump • Ahead and astern test • Fuel tanks • Searchlight test (passenger vessels) • Annual fuel changed • Extinguishers serviced | |
| <input type="checkbox"/> | Hand-propelled lifeboats* | 46 CFR 199.45(b) |
| | <ul style="list-style-type: none"> • Flemming gear • Transmission oil | |
| <input type="checkbox"/> | Radio installation for lifeboats complies with FCC and/or international convention (where required)* | 46 CFR 199.60 SOLAS 74/78 III/6 |
| | <ul style="list-style-type: none"> • Portable • Fixed | |
| <input type="checkbox"/> | Lifeboat operational test* | 46 CFR 199.45(b) SOLAS 74/78 III/19 MSM Ch. C2.H.2.b |
| <input type="checkbox"/> | Davits | 46 CFR 160.032 SOLAS 74/78 III/48 MSM Ch. C2.H.6 |
| | <ul style="list-style-type: none"> • Foundations • Moving parts • Fittings • Fairleads, cleats, or cruciform bits | |
| <input type="checkbox"/> | Falls (date last renewed or end-for-ended) _____ | 46 CFR 199.190(j) SOLAS 74/78 III/48 MSM Ch. C2.H.8 |

* Items tested in conjunction with Abandon Ship Drill.

Notes: _____

- | | | |
|--------------------------|--|---|
| <input type="checkbox"/> | Galley | MSM Ch. B1.N.8 |
| | <ul style="list-style-type: none"> • Equipment • Sanitation • Ventilation | 46 CFR 72.05-50 |
| <input type="checkbox"/> | Means of escape from accommodation, machinery, and other spaces | 46 CFR 72.10 46 CFR 92.10 SOLAS 74/78 II-2/45 |
| | <ul style="list-style-type: none"> • Two required (some exceptions) • Dead end corridors • Absence of locks | |
| <input type="checkbox"/> | Gas freeing for repairs | MSM Ch. A5.H |
| | <ul style="list-style-type: none"> • Current Gas Chemist Certificate for areas as required • Date _____ • Chemist No. _____ | |

Structural Integrity:

- | | | |
|--------------------------|--|---|
| <input type="checkbox"/> | Hull structure (list inaccessible compartments or areas) | 46 CFR 72.01 46 CFR 92.01 ICLL 66 Reg. 1 |
| | <ul style="list-style-type: none"> • Decks • Shell • Bulkheads • Tank tops • Strength members | |
| <input type="checkbox"/> | Hull openings and closures | 46 CFR 42.15 MSM Ch. B1.E.5 ICLL 66 Regs. 12 - 23 |
| | <ul style="list-style-type: none"> • Side ports • Air ports and dead covers • Refuse chutes • Hatch covers • Closing devices, gaskets • Light / water test | |
| <input type="checkbox"/> | Deck openings and closures | MSM Ch. B1.E.5 ICLL 66 Regs. 12 - 20 |
| | <ul style="list-style-type: none"> • Closing devices • Gaskets • Light / water test | |

Notes: _____

- ☐ Lifeboat equipment and stowage
(use table below to determine required equipment)

46 CFR 199.175
SOLAS 74/78 III/41

| Item Number | Item | International Voyage | | Short International Voyage | |
|-------------|--------------------------------|----------------------|-------------|----------------------------|-------------|
| | | Lifeboat | Rescue Boat | Lifeboat | Rescue Boat |
| 1 | Bailer ¹ | 1 | 1 | 1 | 1 |
| 2 | Bilge pump ² | 1 | | 1 | |
| 3 | Boathook | 2 | 1 | 2 | 1 |
| 4 | Bucket ³ | 2 | 1 | 2 | 1 |
| 5 | Can opener | 3 | | 3 | |
| 6 | Compass | 1 | 1 | 1 | 1 |
| 7 | Dipper | 1 | | 1 | |
| 8 | Drinking cup | 1 | | 1 | |
| 9 | Fire extinguisher | 1 | 1 | 1 | 1 |
| 10 | First aid kit | 1 | 1 | 1 | 1 |
| 11 | Fishing kit | 1 | | | |
| 12 | Flashlight | 1 | 1 | 1 | 1 |
| 13 | Hatchet | 2 | | 2 | |
| 14 | Heaving line | 2 | 2 | 2 | 2 |
| 15 | Jackknife | 1 | | 1 | |
| 16 | Knife ^{1,4} | | 1 | | 1 |
| 17 | Ladder | 1 | 1 | 1 | 1 |
| 18 | Mirror, signalling | 1 | | 1 | |
| 19 | Oars, units ^{5,6} | 1 | 1 | 1 | 1 |
| 20 | Painter | 2 | 1 | 2 | 1 |
| 21 | Provisions (units/persons) | 1 | | | |
| 22 | Pump ⁷ | | 1 | | 1 |
| 23 | Radar reflector | 1 | 1 | 1 | 1 |
| 24 | Rainwater collection device | 1 | | 1 | |
| 25 | Repair kit ⁷ | | 1 | | 1 |
| 26 | Sea anchor | 1 | 1 | 1 | 1 |
| 27 | Searchlight | 1 | 1 | 1 | 1 |
| 28 | Seasickness kit (units/person) | 1 | | 1 | |

- ☐ Hull marks

46 CFR 67.120

- Name
- Hailing port
- Official number
- Net tonnage

- ☐ Draft marks

46 CFR 78.50-10
46 CFR 97.40-10

- Legible
- Properly sized
- Properly spaced

- ☐ Load line marks

46 CFR 78.50-15
46 CFR 97.40-15
ICLL 66 Reg. 4-9

- Conform to certificate
- Legible

Integral Cargo Tanks:

- ☐ Warning notices and signals posted

46 CFR 70.05-30
46 CFR 90.05-35

- ☐ Pumps

46 CFR 70.05-30
46 CFR 90.05-35

- Pumps and controls
- Relief valves
- Piping-valves
- Lighting and wiring
- Cofferdams

46 CFR 111.105

- ☐ Cargo spaces

46 CFR 91.15-1
46 CFR 91.25-37

- Trunks and hatches
- Ullage openings
- Liquid level gauges
- Deck penetrations
- Heating coils
- Internal examination

Notes: _____
